

## ABSTRACT OF THE DISCLOSURE

An electrostatic precipitator using substantially planar screens of similar charge positioned perpendicular to the gas flow direction. The screens have a similar charge of the same polarity, and particles flowing through the screens are charged, agglomerated  
5 and either collected on the screens or fall downwardly into collecting hoppers below the screens. The screens preferably have openings smaller than 3 millimeters and are spaced apart less than 10 millimeters. In an alternative embodiment, the screens have alternating polarities and are spaced about an inch or more apart to prevent sparkover.